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OCT 30 2008

IN THE CLAIMS:

Claim 1 (currently amended): A screw with stabilized strength wherein:

a screw head of said screw is provided with a bit engaging groove that is formed in a Y shape divided into three equal parts in a circumferential direction at a specified radial distance from a central portion of said screw head,

groove widths of respective branching grooves that extend in a radial direction from a central portion of said bit engaging groove are formed so that said widths gradually expand, thus producing substantially equal intervals with a width dimension of boundary portions which are between respective adjacent branching grooves.

respective outer circumferential end wall surfaces of said bit engaging groove are formed in a substantially perpendicular attitude to a specified depth from an opening edge part, and step parts displaced downward toward a central portion of a screw neck from perpendicular lower edge portions are respectively provided,

the opening edge part of the respective outer circumferential end wall surfaces of the bit engaging groove is formed as an inclined surface that inclines upward at an angle of 15° to 35° from an inner diameter side toward outwardly radial direction,

a bottom of the intersecting central portion of the bit engaging groove is formed as a bottom surface which is a circular conical recessed part, and

boundary portions between the respective adjacent branching grooves of the bit engaging groove are formed so that the boundary portions are formed by planar side wall surfaces that intersect at obtuse angles showing left-right symmetry with respect to respective branching grooves in the central portion of the bit engaging groove, and a surface of said screw head that forms said boundary portions is formed as an inclined surface portion that is inclined at an angle of 20° to 50° downward toward the central portion of said bit engaging groove.

Claim 2 (canceled).

Claim 3 (canceled).

Claim 4 (canceled).

Claim 5 (canceled).

Claim 6 (canceled).

Claim 7 (canceled).

Claim 8 (canceled).

Claim 9 (currently amended): A screw with stabilized strength wherein:

a screw head of said screw is provided with a bit engaging groove that is formed in a Y shape divided into three equal parts in a circumferential direction at a specified radial distance from a central portion of said screw head,

groove widths of respective branching grooves that extend in a radial direction from a central portion of said bit engaging groove are formed so that said widths gradually expand, thus producing substantially equal intervals with a width dimension of the boundary portions which are between respective adjacent branching grooves,

respective outer circumferential end wall surfaces of said bit engaging groove are formed in a substantially perpendicular attitude to a specified depth from an opening edge part, and displaced portions displaced downward toward a central portion of a screw neck from perpendicular lower edge portions are provided,

the opening edge part of the respective outer circumferential end wall surfaces of the bit engaging groove is formed as an inclined surface that inclines upward at an angle of 15° to 35° from an inner diameter side toward outwardly radial direction,

a bottom of the intersecting central portion of the bit engagement groove is formed as a bottom surface which is a circular recessed part, and

boundary portions between the respective adjacent branching grooves of the bit engaging groove are formed so that the boundary portions are bent side wall surfaces showing left-right symmetry with respect to the respective branching grooves in the central portion of the bit engaging groove, and a surface of said screw head that forms said boundary portion is

formed as an inclined surface portion that is inclined at an angle of 20° to 50° downward toward the central portion of said bit engaging groove.

Claim 10 (canceled).

Claim 11 (canceled).

Claim 12 (currently amended): A combination of a screw with stabilized strength and a screwdriver bit, wherin:

in said screw with stabilized strength:

a screw head of said screw is provided with a bit engaging groove that is formed in a Y shape divided into three equal parts in a circumferential direction at a specified radial distance from a central portion of said screw head,

groove widths of respective branching grooves that extend in a radial direction from a central portion of said bit engaging groove are formed so that said widths gradually expand, thus producing substantially equal intervals with a width dimension of boundary portions which are between respective adjacent branching grooves,

respective outer circumferential end wall surfaces of said bit engaging groove are formed in a substantially perpendicular attitude to a specified depth from an opening edge part, and step parts displaced downward toward a central portion of a screw neck from perpendicular lower edge portions are respectively provided,

the opening edge part of the respective outer circumferential end wall surfaces of the bit engaging groove is formed as an inclined surface that inclines upward at an angle of 15° to 35° from an inner diameter side toward outwardly radial direction.

a bottom of the intersecting central portion of the bit engaging groove is formed as a bottom surface which is a circular conical recessed part, and

boundary portions between the respective adjacent branching grooves of the bit engaging groove are formed so that the boundary portions are formed by planar side wall surfaces that intersect at obtuse angles showing left-right symmetry with respect to respective branching grooves in the central portion of the bit engaging groove, and a surface of said screw head that forms said boundary portions is formed as an inclined surface portion

that is inclined at an angle of 20° to 50° downward toward the central portion of said bit engaging groove; and

    said screwdriver bit comprises a tip end blade part, vane parts, inclined surface and step parts, and protruding parts, wherin

    said vane parts are respectively formed on said tip end blade part and have end edge parts that have a right-angled shape to obtuse angular shape and engage with respective branching grooves of said bit engaging groove formed substantially vertically from an opening edge section thereof and in a Y shape divided into three-equal parts in the circumferential direction in said screw head of said screw with stabilized strength,

    said inclined surface and step parts are respectively formed on tip ends of said respective vane parts so as to match the step parts of said bit engaging groove, and

    said protruding parts are formed to intersect and connect in a circular conical shape in a central axial part of the screwdriver bit, said protruding parts corresponding to the bottom surface of the circular conical recessed part.

Claim 13 (canceled).

Claim 14 (currently amended): A combination of a screw with stabilized strength and a screwdriver bit, wherein:

    in said screw with stabilized strength:

        a screw head of said screw is provided with a bit engaging groove that is formed in a Y shape divided into three equal parts in a circumferential direction at a specified radial distance from a central portion of said screw head,

        groove widths of respective branching grooves that extend in a radial direction from a central portion of said bit engaging groove are formed so that said widths gradually expand, thus producing substantially equal intervals with a width dimension of the boundary portions which are between respective adjacent branching grooves,

        respective outer circumferential end wall surfaces of said bit engaging groove are formed in a substantially perpendicular attitude to a specified depth from an opening edge part, and displaced portions displaced downward toward a central portion of a screw neck from perpendicular lower edge portions are provided,

the opening edge part of the respective outer circumferential end wall surfaces of the bit engaging groove is formed as an inclined surface that inclines upward at an angle of 15° to 35° from an inner diameter side toward outwardly radial direction,

a bottom of the intersecting central portion of the bit engagement groove is formed as a bottom surface which is a circular recessed part, and

boundary portions between the respective adjacent branching grooves of the bit engaging groove are formed so that the boundary portions are bent side wall surfaces showing left-right symmetry with respect to the respective branching grooves in the central portion of the bit engaging groove, and a surface of said screw head that forms said boundary portions is formed as an inclined surface portion that is inclined at an angle of 20° to 50° downward toward the central portion of said bit engaging groove; and

said screwdriver bit comprises a tip end blade part, vane parts, inclined surface and step parts, and protruding parts, wherein

said vane parts are respectively formed on said tip end blade part and have end edge parts that have a substantially right-angled shape to obtuse angular shape and engage with respective branching grooves of said bit engaging groove formed substantially vertically from an opening edge section thereof and in a Y shape divided into three substantially equal parts in the circumferential direction in said screw head of said screw with stabilized strength,

said inclined surface and step parts are respectively formed on tip ends of said respective vane parts so as to match the displaced portions of said bit engaging groove, and

said protruding parts are formed to intersect and connect in a circular conical shape in a central axial part of the screwdriver bit, said protruding parts corresponding to the bottom surface of the circular recessed part.

Claim 15 (canceled).

Claim 16 (canceled).

Claim 17 (canceled).

Claim 18 (currently amended): A header punch used to manufacture the screw with stabilized strength according to Claim 1, wherein said header punch comprises:

protruding parts which have perpendicular end wall parts used to form respective outer circumferential end wall surfaces of a bit engaging groove formed in a Y shape divided into three equal branching grooves in a circumferential direction in a screw head and to form a width of each branching groove to be equal to a width dimension of adjacent boundary portions so that the wall surfaces are perpendicular to a specified depth, [[and]]

inclined end wall parts which are provided on said protruding parts having said perpendicular end wall parts, said inclined end wall parts being used to form opening edge parts of the respective branching bit engaging grooves so as to be an inclined surface that inclines upward at an angle of 15° to 35° from an inner diameter side toward outwardly radial direction.

inclined protruding parts which are used to form inclined surface portions that are inclined gradually downward at an angle of 20° to 50° toward a central portion of the bit engaging groove, with respect to boundary portions which are between respective protruding parts that are adjacent in a circumferential direction of base portions of said protruding parts, are provided, and

step parts [[that]] which are used to form steps parts, which displace and incline in the branching grooves, and respectively provided at tip ends of said protruding parts, and a circular conical protruding part which is provided on tip ends of said protruding parts and used to form the circular conical bottom surface of the bit engaging groove.

Claim 19 (canceled).

Claim 20 (canceled).

Claim 21 (canceled).

Claim 22 (canceled).

Claim 23 (currently amended): A header punch used to manufacture the screw with stabilized strength according to Claim 9, wherein said header punch comprises:

protruding parts which have perpendicular end wall parts used to form respective outer circumferential end wall surfaces of a bit engaging groove formed in a Y shape divided into three equal branching grooves in a circumferential direction in a screw head and to form a width of each branching groove to be equal to a width dimension of adjacent boundary portions so that the wall surfaces are perpendicular to a specified depth, [[and]]

inclined end wall parts which are provided on said protruding parts having said perpendicular end wall parts, said inclined end wall parts being used to form opening edge part of the respective branching bit engaging grooves so as to be an inclined surface that inclines upward at an angle of 15° to 35° from an inner diameter side toward outwardly radial direction,

inclined protruding parts which are used to form inclined surface portions that are inclined gradually downward at an angle of 20° to 50° toward a central portion of the bit engaging groove, with respect to boundary portions which are between respective protruding parts that are adjacent in a circumferential direction of base portions of said protruding parts, are provided, and

protruding parts [[that]] which are used to form inclined step parts that are inclined in the branching grooves are respectively provided at tip ends of said protruding parts, and a circular protruding part which is provided on tip ends of said protruding parts and used to form the bottom of the circular recessed part of the bit engaging groove.